

**I claim:**

1. A method of protecting a female cavity of a female hitch receiver, comprising the steps of:

providing a male body that is sized to be received by an inside perimeter of the female cavity;

applying a quantity of lubricant to an outside surface of said male body; and

inserting said male body into said the female cavity when the female hitch receiver is not in use.

2. The method of protecting a female cavity of a female hitch receiver of claim 1, further comprising the step of:

providing a means for withdrawing said male body from said female cavity.

3. The method of protecting a female cavity of a female hitch receiver of claim 2, further comprising the step of:

providing an end cap for said means for withdrawing said male body.

4. The method of protecting a female cavity of a female hitch receiver of claim 1, further comprising the step of:

forming a retention hole through said male body, inserting a fastener through said retention hole and a retention pin hole in the female hitch receiver.

5. The method of protecting a female cavity of a female hitch receiver of claim 4, further comprising the step of:

providing one of a plastic dowel or plastic tube for said fastener.

6. The method of protecting a female cavity of a female hitch receiver of claim 1, further comprising the step of:

providing grease for said quantity of lubricant.

7. The method of protecting a female cavity of a female hitch receiver of claim 1, further comprising the step of:

fabricating said male body from styrofoam.

8. A method of protecting a female cavity of a female hitch receiver, comprising the steps of:

providing a male body that is sized to be received by an inside perimeter of the female cavity;

applying a quantity of lubricant to an outside surface of said male body;

providing a means for withdrawing said male body from said female cavity; and

inserting said male body into said the female cavity when the female hitch receiver is not in use.

9. The method of protecting a female cavity of a female hitch receiver of claim 8, further comprising the step of:

providing an end cap for said means for withdrawing said male body.

10. The method of protecting a female cavity of a female hitch receiver of claim 8, further comprising the step of:

forming a retention hole through said male body, inserting a fastener through said retention hole and a retention pin hole in the female hitch receiver.

11. The method of protecting a female cavity of a female hitch receiver of claim 10, further comprising the step of:

providing one of a plastic dowel or plastic tube for said fastener.

12. The method of protecting a female cavity of a female hitch receiver of claim 8, further comprising the step of:

providing grease for said quantity of lubricant.

13. The method of protecting a female cavity of a female hitch receiver of claim 8, further comprising the step of:

fabricating said male body from styrofoam.

14. A method of protecting a female cavity of a female hitch receiver, comprising the steps of:

providing a male body that is sized to be received by an inside perimeter of the female cavity;

applying a quantity of lubricant to an outside surface of said male body;

forming a retention hole through said male body, inserting a fastener through said retention hole and a retention pin hole in the female hitch receiver;

providing means for withdrawing said male body from said female cavity; and

inserting said male body into said the female cavity when the female hitch receiver is not in use.

15. The method of protecting a female cavity of a female hitch receiver of claim 14, further comprising the step of:

providing an end cap for said means for withdrawing said male body.

16. The method of protecting a female cavity of a female hitch receiver of claim 14, further comprising the step of:

providing one of a plastic dowel or plastic tube for said fastener.

17. The method of protecting a female cavity of a female hitch receiver of claim 14, further comprising the step of:  
providing grease for said quantity of lubricant.

18. The method of protecting a female cavity of a female hitch receiver of claim 14, further comprising the step of:  
fabricating said male body from styrofoam.